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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|----------------------------------|-------------------|----------------------|----------------------------|-----------------|
| 10/751,450 | 01/06/2004 | Hiroyuki Yamaoka | 2004-0007 2585 EXAMINER | |
| 513 7 | 7590 03/24/2005 | | | |
| WENDERO1 | TH, LIND & PONACK | GRAY, JILL M | | |
| 2033 K STREET N. W. SUITE 800 | | | ART UNIT | PAPER NUMBER |
| WASHINGTON, DC 20006-1021 | | | 1774 | |
| | | | DATE MAIL ED. 02/24/200 | • |

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | | | | | |
| | 10/751,450 | YAMAOKA ET AL. | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | |
| | Jill M. Gray | 1774 | | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | |
| Status | | | | | | | |
| 1) Responsive to communication(s) filed on | . | | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ This | s action is non-final. | | | | | | |
| ·— | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under it | Ex parte Quayle, 1935 C.D. 11, 4 | 53 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | | |
| 4)⊠ Claim(s) <u>1-9</u> is/are pending in the application. | | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ Claim(s) <u>1-9</u> is/are rejected. | | | | | | | |
| | 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/o | or election requirement. | | | | | | |
| Application Papers | | | | | | | |
| 9)☐ The specification is objected to by the Examine | er. | | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ acc | cepted or b) objected to by the | Examiner. | | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. Se | e 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correct | , | • | | | | | |
| 11) The oath or declaration is objected to by the E | xaminer. Note the attached Office | Action or form PTO-152. | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | | |
| a) All b) Some * c) None of: | | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| Occurs attached detailed Office action for a list of the certified copies flot received. | | | | | | | |
| | | | | | | | |
| Attachment(s) | | | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary | | | | | | |
| 2) | Paper No(s)/Mail D 5) Notice of Informal F | ate. <u>3/15/05</u> . Patent Application (PTO-152) | | | | | |
| Paper No(s)/Mail Date <u>1/6/04</u> . | 6) Other: | | | | | | |

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: The present status (whether patented or abandoned) of the parent application must be stated.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-2 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-2 and 5 are indefinite because the language of "existent ratio" is not clearly defined. It is not clear whether this language refers to the ratio of B to N in the boron nitride layer or the ratio of B to Si in the silicon carbide fiber or the total amount of B present in silicon carbide fiber with boron nitride coating. Accordingly, the metes and bounds for which patent protection is being sought are not clear.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent

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granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6-9 are rejected under 35 U.S.C. 102(b) as being anticipated by applicants' admission on pages 16-17, section [0055] of the specification, Sacks, 6,040,008.

Applicants' admission on pages 16-17, section [0055] of the specification discloses a process of Sacks '008 that comprises melt-spinning polycarbosilane with an organic boron compound, infusibilizing the fiber and sintering in a nitrogen-containing atmosphere. The organic boron compound is of the type contemplated by applicants in claims 7 and 9. Hence, the disclosed prior art process of Sacks '008 anticipates the invention as claimed in present claims 6-9.

Claims 6-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Sacks 6,203,904 B1.

Sacks teaches a process for producing silicon carbide fiber comprising melt-spinning polycarbosilane with an organic boron compound, infusibilizing the fiber and sintering in a nitrogen-containing atmosphere, wherein the organic boron compound is of the type contemplated by applicants in claims 7 and 9. See abstract and Example 1. Therefore, the teachings of Sacks anticipate the invention as claimed in present claims 6-9.

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis

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added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1-9 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-9 of copending Application No. 10/981,525. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill M. Gray whose telephone number is 571-272-1524. The examiner can normally be reached on M-F 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

M. Gray

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